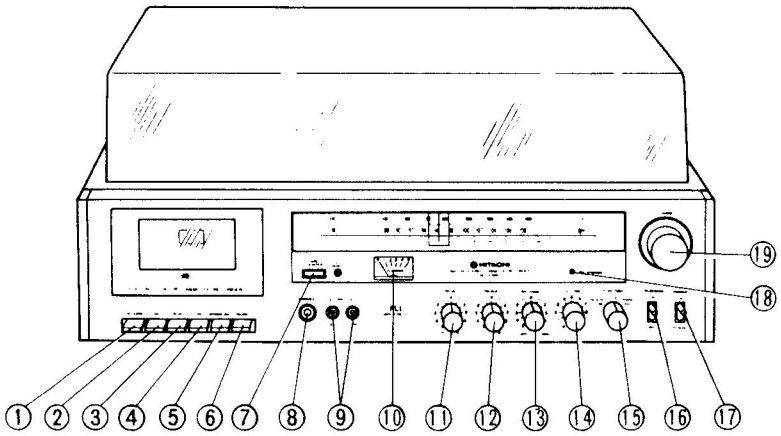
HITACHI
SERVICE MANUAL

TY | **No. 250E**

SDT-9310H
SDT-9320H

REVISED VERSION

The RECORD PLAYER SECTION of the SDT-9310H, 9320H is changed from, serial T004 xxxxx, T006 xxxxx. This service manual shows all items with wiring diagram, exploded view and parts list of the RECORD PLAYER SECTION which are compared before and after changed RECORD PLAYER SECTION. Please scrap the service manual (No. 1204) issued july 1979.



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KEY TO ILLUSTRATIONS

① RECORD BUTTON
② REWIND BUTTON
③ PLAYBACK BUTTON
④ FAST FORWARD BUTTON
⑤ STOP/EJECT BUTTON
⑥ PAUSE BUTTON
⑦ TAPE COUNTER
⑧ HEADPHONE JACK
⑨ MICROPHONE JACKS
⑩ TUNING METER (FOR SDT-9320H)
⑪ BASS CONTROL
⑫ TREBLE CONTROL
⑬ BALANCE CONTROL
⑭ VOLUME CONTROL
⑮ FUNCTION SELECTOR
⑯ LOUDNESS SWITCH
⑰ POWER SWITCH
⑱ FM STEREO INDICATOR
⑲ TUNING CONTROL

SAFETY PRECAUTION

The following precautions should be observed when servicing.

1. Since many parts in the unit have special safety related characteristics, always use genuine Hitachi's replacement parts. Especially critical parts in the power circuit block should not be replaced with other makes. Critical parts are marked with ⚠ in the schematic diagram and circuit board diagram.
2. Before returning a repaired unit to the customer, the service technician must thoroughly test the unit to ascertain that it is completely safe to operate without danger of electrical shock.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

AM-FM STEREO CASSETTE RECORDER WITH AUTOMATIC CHANGER

January 1981 TOYOKAWA WORKS

SPECIFICATIONS

GENERAL SECTION

Semi-conductors:	IC's: 3
	Transistors: 17
	Diodes: 17 (SDT-9310H)
	18 (SDT-9320H)
Power Supply:	AC 120V, 60Hz
Power Consumption:	40W
Dimensions:	10-1/8"(H) x 23-3/8"(W) x 14-3/4"(D) (25.7 x 59.4 x 37.5) cm
Weight:	19 lbs. 13 oz. (9kg)

AMPLIFIER SECTION

Input Sensitivity and Impedance:	Microphone: 0.6 mV, 1k ohm
	Aux in: 300 mV, 470K ohms
Output Impedance:	Speaker: 8 ohms
	Headphone: 8 ohms
	Rec out: 50k ohms
Output Level:	400 mV

TUNER SECTION

Circuit System:	FM/AM 2-band superheterodyne
Tuning Range:	FM: 88 to 108 MHz
	AM: 530 to 1605 kHz
IHF Sensitivity:	FM: 3μV/m (S/N: 15 dBf)
	AM: 300 μV/m (S/N: 20 dB)
FM Separation:	30 dB
Intermediate Frequency:	FM: 10.7 MHz
	AM: 455 kHz
Antennas:	FM: Line cord antenna or external antenna
	AM: Built-in ferrite-core antenna

RECORD PLAYER SECTION

Changer:	BSR C-197BI with cue
Cartridge:	BSR TC-11M
Stylus:	BSR T-3MD
EP Adaptor:	BSR, PS-899-2
Turntable:	28 cm
Speed:	33-1/3, 45, 78 rpms
Stylus Force:	5 g
Changer:	SP-915
Cartridge:	EPC-135THD
Stylus:	EPS-415TSD
EP Adaptor:	SFVA701-IE
Turntable:	28cm
Speed:	33-1/3, 45rpms
Stylus Force:	4g±0.5g

SPEAKER SECTION

Speaker box assembly:	SS-81B (SDT-9310H)
	SS-82A (SDT-9320H)

TAPE DECK SECTION

Tape:	Cassette tape (C-30, 60, 90)
Tape Speed:	1-7/8" ips (4.75 cm/s)
Recording System and Bias Frequency:	AC bias, 50 kHz
Erasing System:	AC erase
Track System:	4 track 2 channel
Frequency Response:	50 Hz to 10 kHz
S/N (Signal to Noise Ratio):	45 dB
Wow and Flutter:	0.3% (RMS)
Cross Talk:	50 dB
Erase Ratio:	50 dB
Motor:	DC motor
Fast Forwarding or Rewinding Time:	120 seconds (Using C-60)

DISASSEMBLY

1. Record Changer

1. Turn two transit screws fully clockwise.
2. Set the locking clip to the vertical position using a minus screwdriver which is inserted through the hole on the rear cover as shown in Fig. A.
3. Remove the record changer along the slit in the direction of arrow while lifting the rear of the record changer as shown in Fig. B.

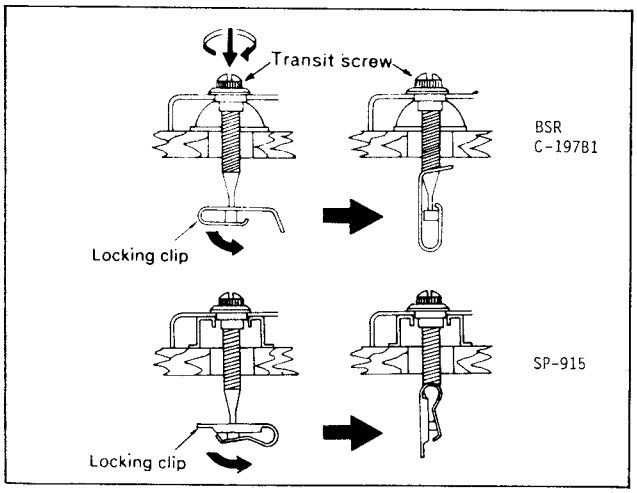


Fig. A

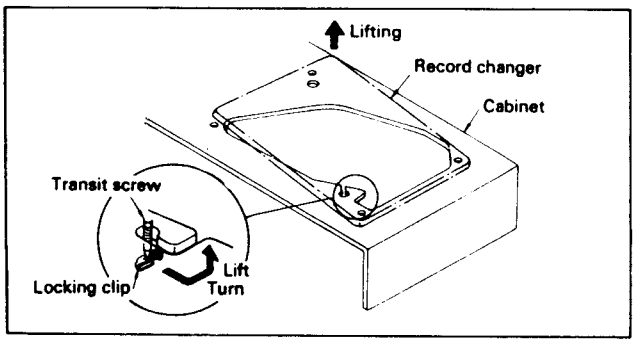
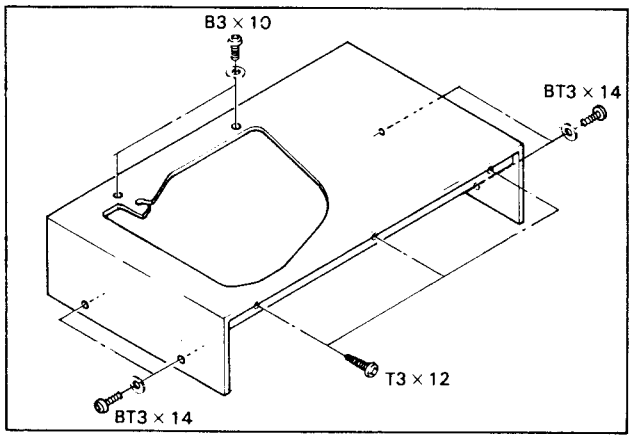
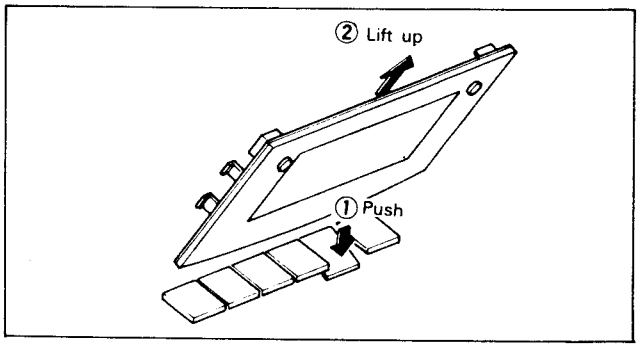


Fig. B

2. Cabinet

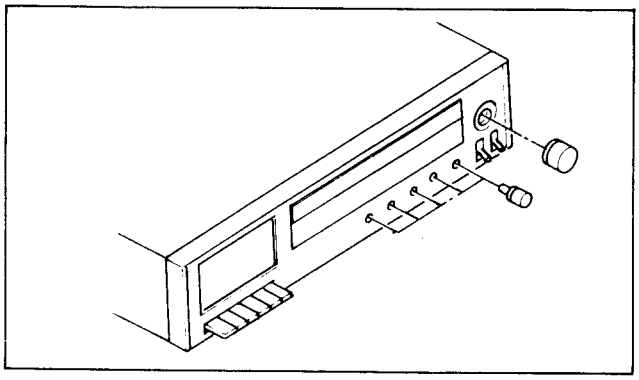


3. Cassette Lid

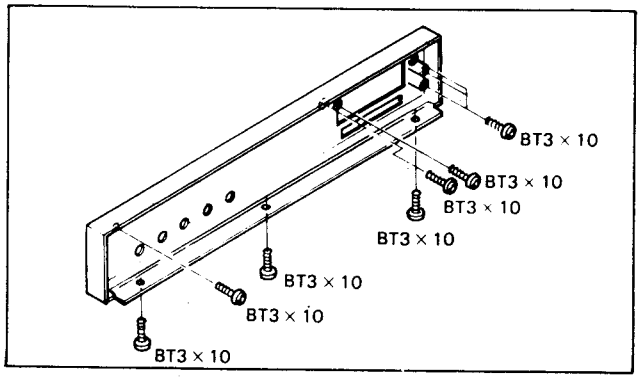


4. Front Panel

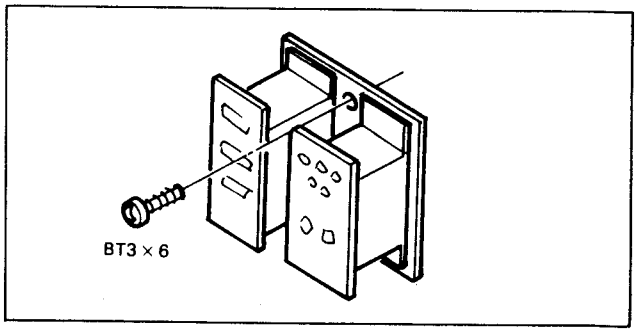
4-1.



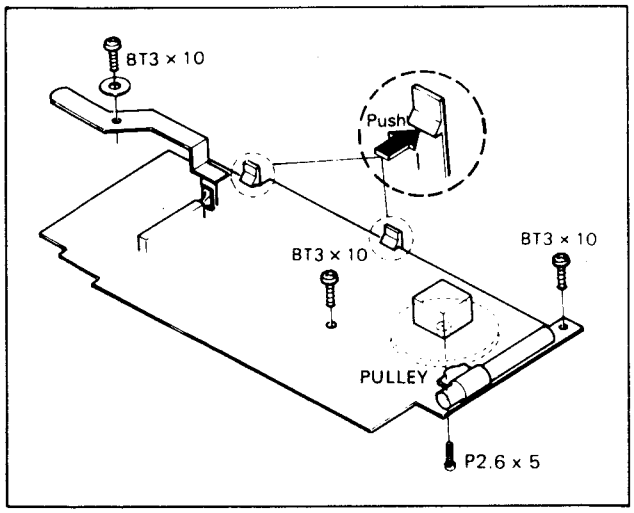
4-2.



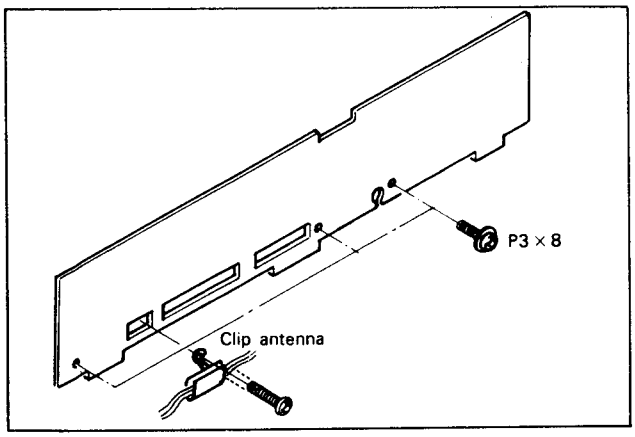
5. Power/Loudness Switch



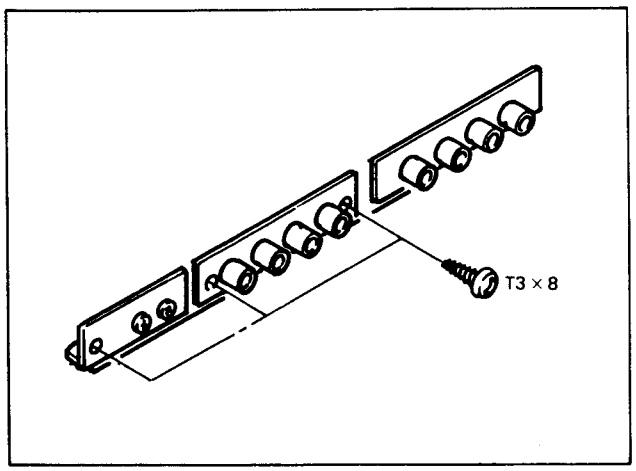
6. Main PC Board



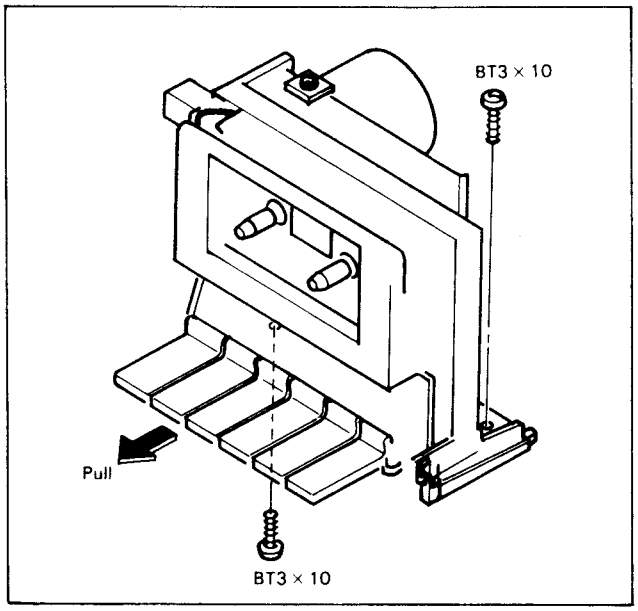
7. Back Cover



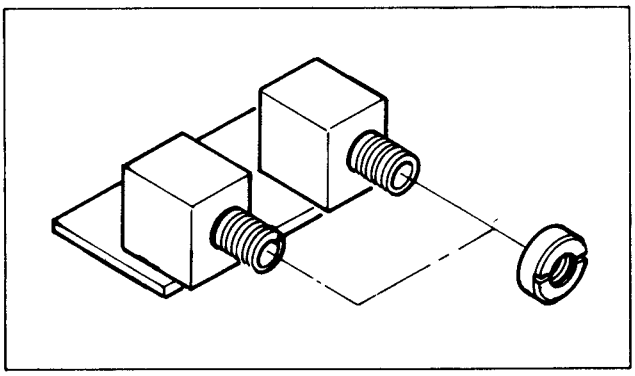
8. Jack PC Board



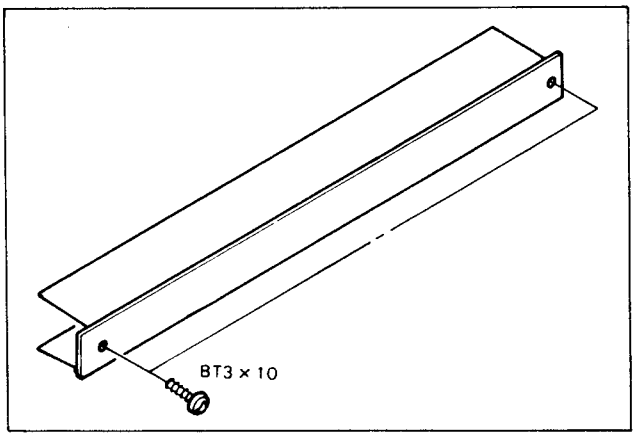
9. Cassette Chassis



10. Microphone Jack PC Board



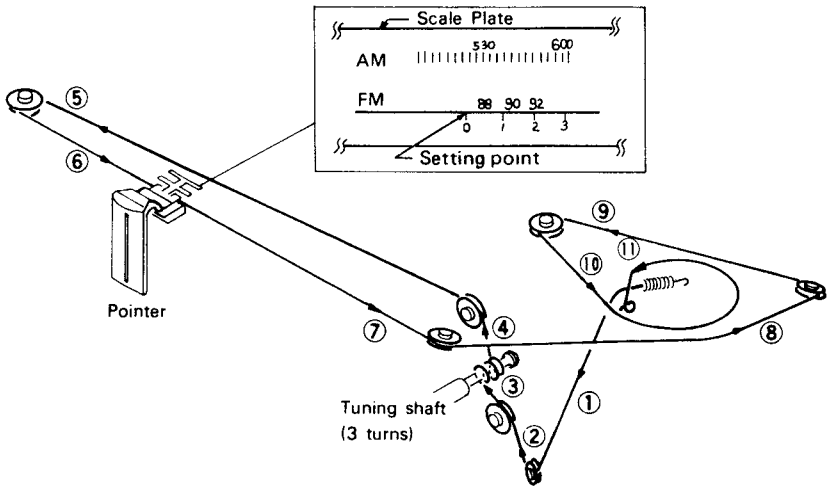
11. Lamp PC Board (SDT-9320H)



DIAL CORD STRINGING

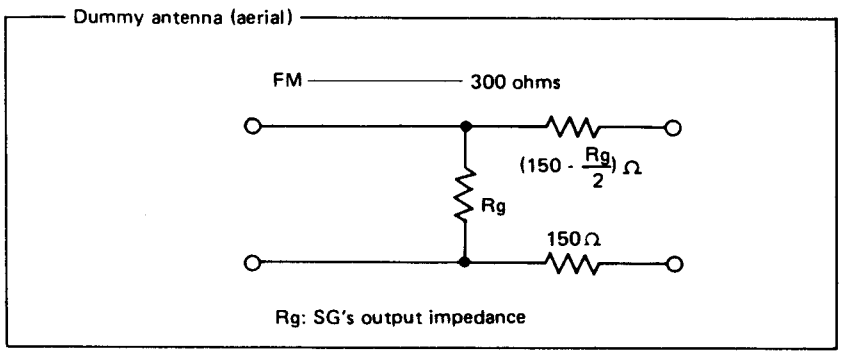
STRINGING METHOD

1. Turn the pulley fully counterclockwise.
2. String the dial cord in the direction of arrow (No. 1 ~ 11).
3. Turn the pulley fully clockwise and set the pointer to setting position.



ADJUSTMENT

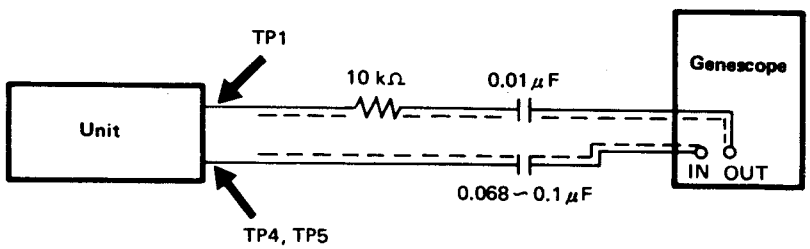
TUNER SECTION



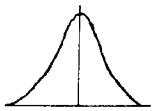
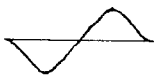
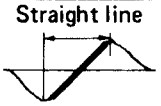
FM-IF adjustment

1. Setting ..... Function selector: FM AUTO

2. Connection

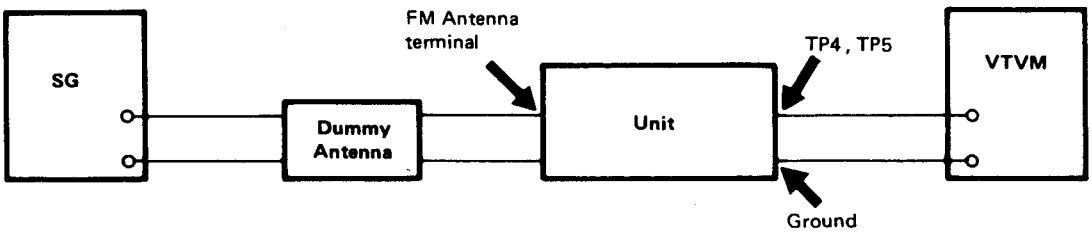


3. Adjustment

Genescope	Dial pointer position	Adjust	Reading	Remarks
10.7 MHz	Highest	T203	——	Turn the T203 fully counterclockwise.
		T102 T202	Maximum  fc	1) fc: Specified centre frequency of the ceramic filter. 2) Reduce the level of the genescope so that the waveform will be one.
		T203		Adjust the T203 so that the output is like the S curve for symmetrical sinewave.
		T202	Straight line 	Adjust the T202 so that the straight line of the S curve can be achieved.

FM-RF (Covering and Tracking) adjustment

1. Setting..... Function selector: FM AUTO
2. Connection



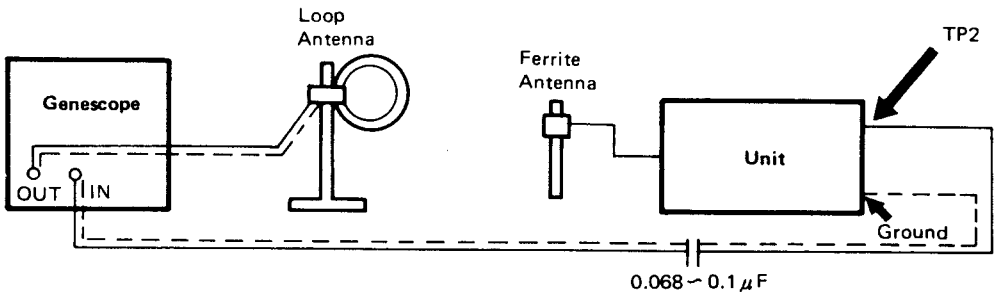
3. Adjustment

Item		Signal generator		Dial pointer position	Adjust	Reading	Remarks
		Frequency	Modulation				
1	Covering	87 MHz	400 Hz 30%	Lowest	L104	Max.	——
2		109 MHz		Highest	CT102		
3	Repeat 1 and 2.						
4	Tracking	90 MHz	400 Hz 30%	90 MHz	L102	Max.	
5		106 MHz		106 MHz	CT101		
6	Repeat 4 and 5.						

AM-IF adjustment

1. Setting..... Function selector: AM

2. Connection



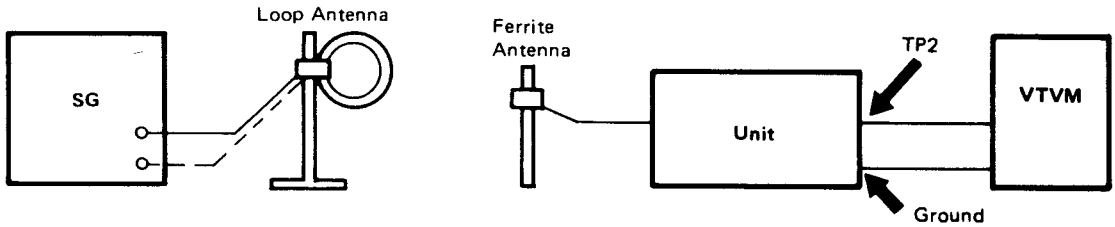
3. Adjustment

Genescope		Dial pointer position	Adjust	Reading	Remarks
Frequency	Modulation				
455 kHz	———	Highest	T151 T201	Max.	———

AM-RF (Covering and Tracking) adjustment

1. Setting ..... Function selector: AM

2. Connection



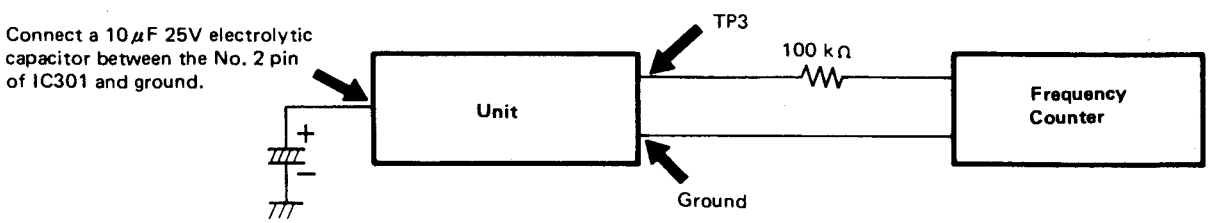
3. Adjustment

	Item	Signal generator		Dial pointer position	Adjust	Reading	Remarks
		Frequency	Modulation				
1	Covering	515 kHz	400 Hz 30%	Lowest	L152	Max.	
2		1650 kHz		Highest	CT152		
3	Repeat 1 and 2.						———
4	Tracking	600 kHz	400 Hz 30%	600 kHz	L151	Max.	
5		1400 kHz		1400 kHz	CT151		
6	Repeat 4 and 5.						

FM MPX (Multiplex) adjustment

1. Setting ..... Function selector: FM AUTO

2. Connection

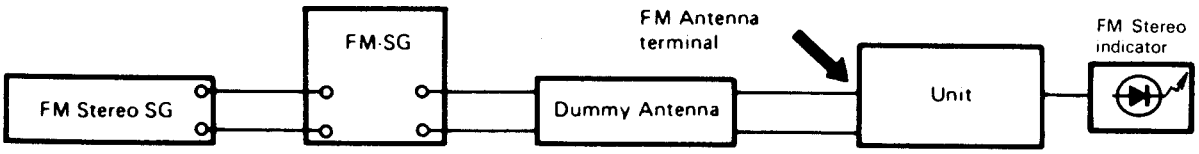


3. Adjustment

Adjust	Reading	Remarks
RT301	19 kHz ± 100 Hz	———

Check the lit sensitivity of the stereo indicator

1. Setting ..... Function selector: FM AUTO
2. Connection



3. Adjustment:

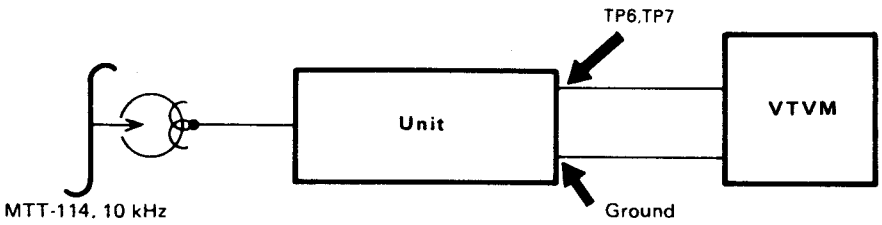
Check whether or not the stereo indicator lits when a 98 MHz (Pilot signal: 7%), 60 dB signal is feed to the FM antenna terminal. If it not lit, disconnect the R302.

TAPE DECK SECTION

Wipe the head, pressure roller, and capstan with alcohol.

Head azimuth adjustment

1. Setting: Playback mode
2. Connection:

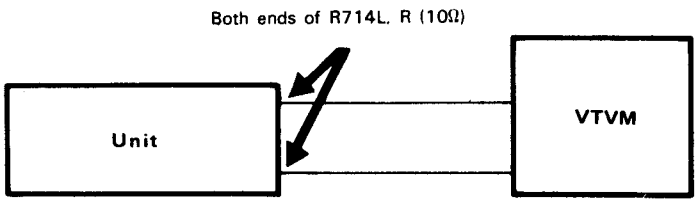


3. Adjustment:

Playback a test tape (MTT-114, 10 kHz) and adjust the head azimuth adjustment screw for maximum output and when the difference between the output levels of R and L channels should be also within 3dB.

Bias current adjustment

1. Setting: Recording mode
2. Connection:



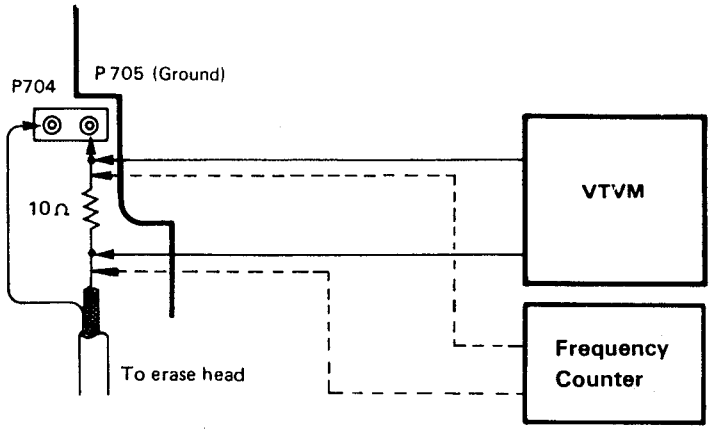
3. Adjustment

Adjust RT701 so that the bias voltage of 5mV ± 0.5mV is applied to the both ends of R714L, R (10Ω).

Erase current and bias oscillator frequency check

1. Setting: Recording mode

2. Connection:



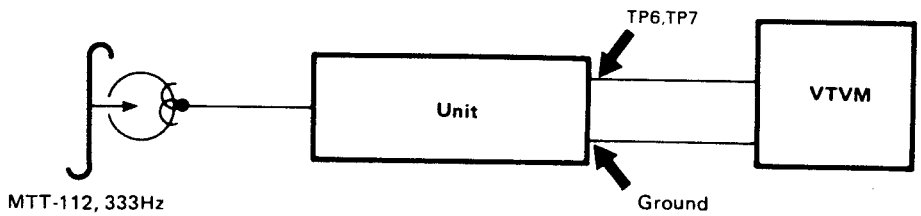
3. Adjustment:

1) Connect a 10Ω resistor between the shield wire side of the erase head and P705. Connect the VTVM to both ends of this resistor and make sure that the voltage is 400 mV or more.
2) Connect a frequency counter to both ends of the above 10Ω resistor, and check for a reading of 60 kHz ±5 kHz.

Playback level adjustment

1. Setting: Playback mode

2. Connection:

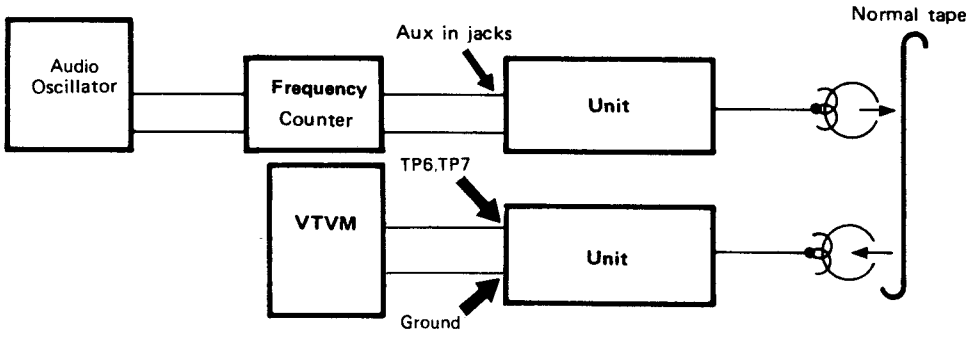


3. Adjustment:

Playback a test tape (MTT-112, 333 Hz) and make sure that the output of TP6 and TP7 is 180 mV ±30 mV.

Recording level check

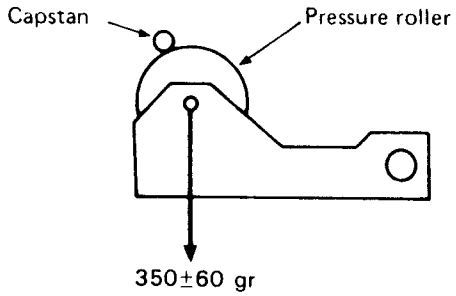
Feed a signal of 1 kHz, 300 mV into AUX IN jacks and record it on a normal tape. Playback the recorded tape and when the output difference between the TP6 and TP7 is more than 3 dB, cut out R724L,R (560kΩ) of the channel with the larger output.



INSPECTION OF MECHANISM

	Check item		Reference value	Remarks
1.	Pressure of pressure roller		350±60 gr	Note 1
2.	Torque	Take-up	40 to 65 gr-cm	Measure in playback mode
		FF	70 to 120 gr-cm	Measure in FF mode
		Rewind	70 to 120 gr-cm	Measure in REW mode
3.	Back-tension	Take-up side	Less than 10 gr-cm	Values when installing the counter
		Supply side	0.5 to 2 gr-cm	—
4.	Flywheel thrust gap		0.1 to 1 mm	—

Note 1. **Pressure of pressure roller**
Set this unit in the playback mode and press the pressure roller in the direction of the arrow using a fan type tension gauge, and measure the pressure when the pressure roller is released from the capstan.



Switching time

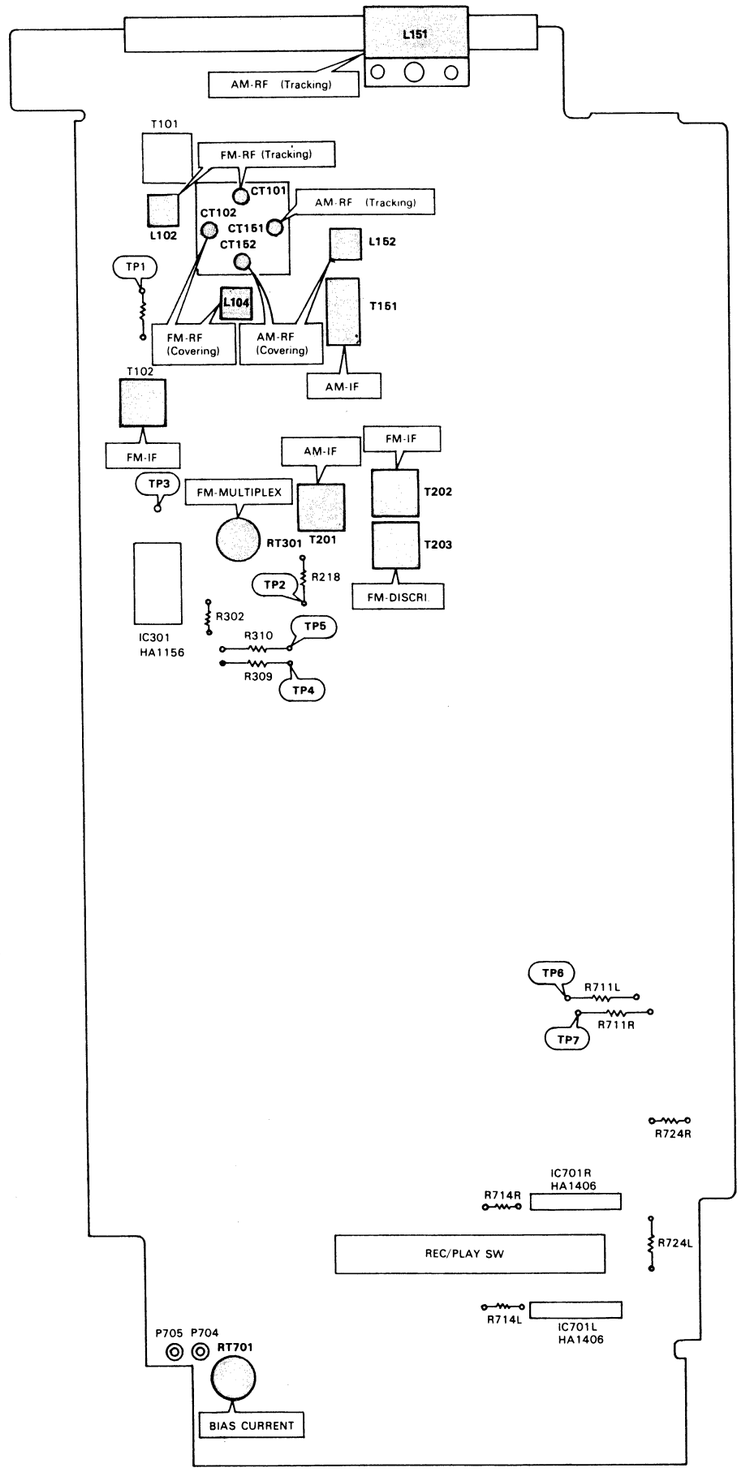
Auto stop	Within 10 sec. Note: Time required for auto stopping after the tape has stopped to run.

LUBRICATION

Lubricate one or two drops of machine oil to rotating point or lubricate grease to sliding point.
Lubricate the respective parts listed below once every 1000 hours or once a year under normal conditions of use. Avoid oiling them excessively, or rotation may become irregular because of oil splashes.

Cassette deck	Motor shaft bearing	Oil
	Capstan shaft bearing	Oil
	Pressure roller shaft bearing	Oil

ADJUSTMENT PARTS LOCATION

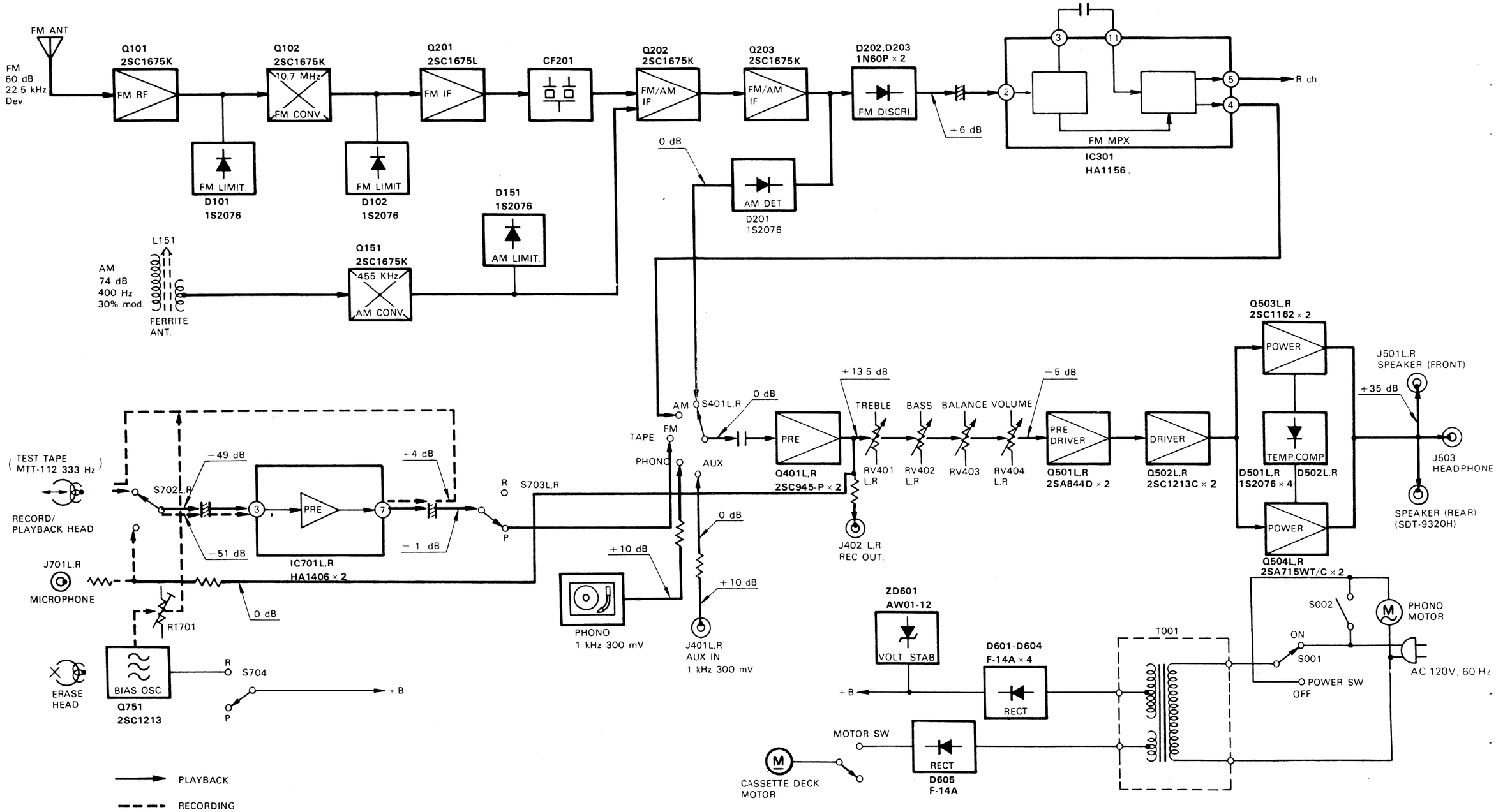


REPLACEMENT PARTS LIST

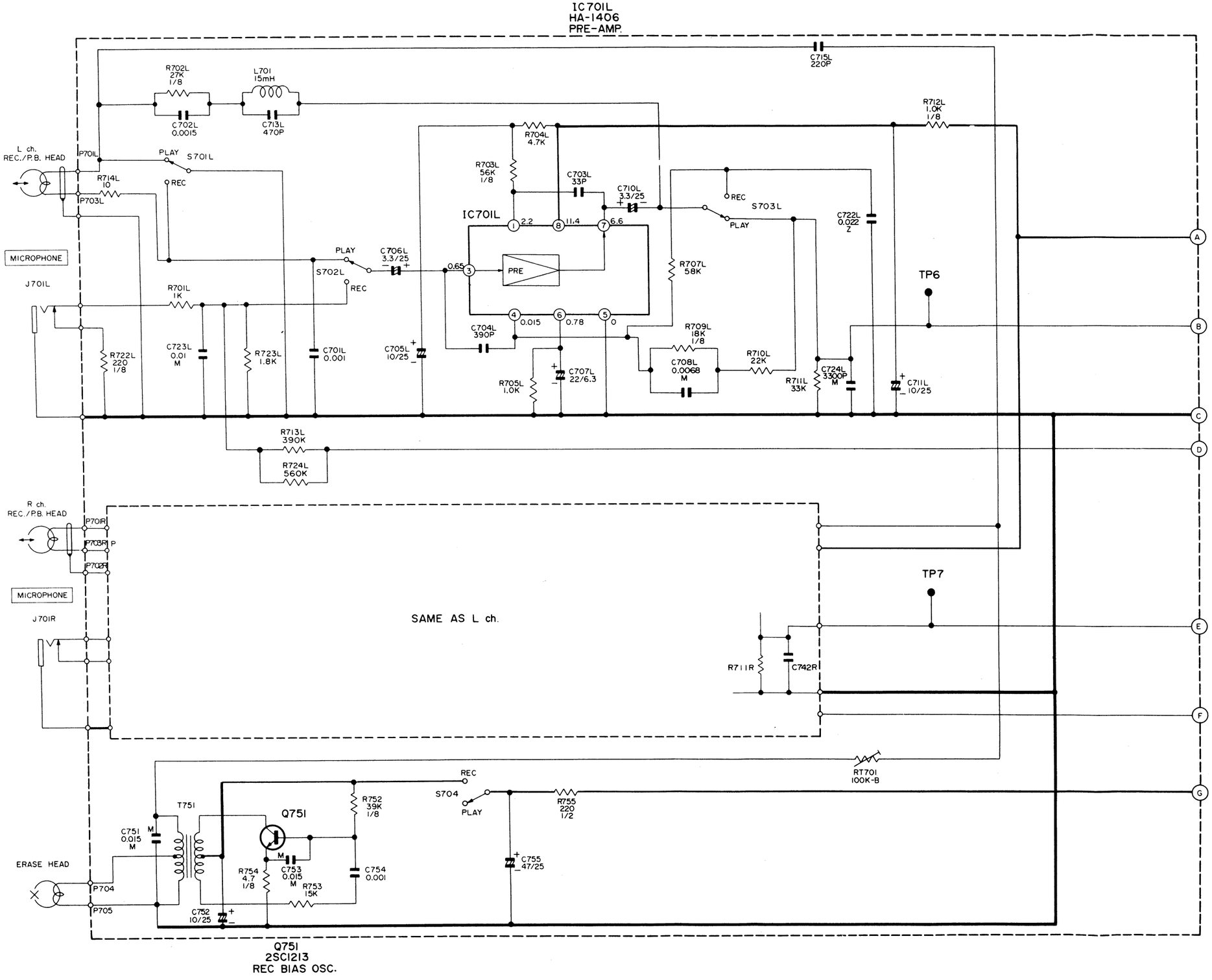
SYMBOL-NO	P-NO	DESCRIPTION
		CAPACITORS
CT101	5052201	PLASTIC FILM VARIABLE
CT102	5052201	PLASTIC FILM VARIABLE
CT151	5052201	PLASTIC FILM VARIABLE
CT152	5052201	PLASTIC FILM VARIABLE
CV101	5052201	PLASTIC FILM VARIABLE
CV102	5052201	PLASTIC FILM VARIABLE
CV151	5052201	PLASTIC FILM VARIABLE
CV152	5052201	PLASTIC FILM VARIABLE
C306	0249537	CERAMIC DISC 470PF+-5%(NP-0)
		RESISTORS
RT301	5007186	SEMI VARIABLE 10K OHM
RT701	5007189	SEMI VARIABLE 100K OHM
RV401LR	5000514	VARIABLE 100K OHM (B)
RV402LR	5000514	VARIABLE 100K OHM (B)
RV403	5000284	VARIABLE 50K OHM (B)
RV404LR	5000513	VARIABLE 100K OHM (B)
		SEMI-CONDUCTORS
D101	5330131	DIODE 1S2076
D102	5330131	DIODE 1S2076
D151	5330131	DIODE 1S2076
D201	5330131	DIODE 1S2076
D202	5330732	DIODE GERMANIUM 1N60P 80MHZ 50MW
D203	5330732	DIODE GERMANIUM 1N60P 80MHZ 50MW
D204	5330131	DIODE 1S2076 (SDT-9320H)
D205	5330131	DIODE 1S2076
D301	5380101	RADIATION DIODE SLP-24B
D501LR	5330131	DIODE 1S2076
D502LR	5330131	DIODE 1S2076
D601-605	5331201	DIODE F14A
IC301	5351073	IC HA1156
IC701LR	5350251	IC HA1406
Q101	5321282	TRANSISTOR 2SC1675K
Q102	5321282	TRANSISTOR 2SC1675K
Q151	5321282	TRANSISTOR 2SC1675K
Q201	5321281	TRANSISTOR SILICON 2SC1675-L 230MHZ 200M
Q202	5321282	TRANSISTOR 2SC1675K
Q203	5321282	TRANSISTOR 2SC1675K
Q401LR	5320813	TRANSISTOR 2SC945P
Q501LR	5321252	2SA844D
Q502LR	5320613	TRANSISTOR SILICON 2SC1213C 80M
Q503LR	5320643	TRANSISTOR SILICON 2SC1162 150M
Q504LR	5320723	TRANSISTOR 2SA715WT-C
Q751	5320613	TRANSISTOR SILICON 2SC1213C 80M
ZD601	5330601	DIODE SILICON AW01-12 DC-1W

SYMBOL-NO	P-NO	DESCRIPTION
		TRANSFORMERS
⚠ T001	5212331	POWER
T101	5126571	FM ANTENNA
T102	0329605	FM IF
T151	5136012	AM IF
T201	0322118	AM IF 20K OHM 10K OHM
T202	5148041	FM DISCRIMINATOR
T203	5148042	FM DISCRIMINATOR
T751	5260311	REC OSC
		COILS
L101	0324003	10.7MHZ TRAP
L102	5126692	FM RF
L103	5150791	CHOKE
L104	5126313	FM OSCILLATOR
L151	5113212	FERRITE ANTENNA
L152	5120275	MW OSCILLATOR
L701LR	5120531	CHOKE
		MISCELLANEOUS
⚠	5741045	AC CABLE
⚠	5746441	POWER CORD
	5896831	PHONO CABLE
CF201	5160211	CERAMIC FILTER CF107A
J401LR	5676082	PIN JACK
J402LR	5676082	PIN JACK
J501LR	5676081	2P US PIN CONNECTOR (SDT-9310H)
J501LR-J502LR	5676082	PIN JACK (SDT-9320H)
J503	5671632	JACK
J701LR	5670461	MOULD JACK MICROPHONE
PL001	5762035	POINTER LAMP (SDT-9310H)
PL001-004	5765022	LAMP (SDT-9320H)
⚠ S001	5632931	LEVER SWITCH (POWER)
S401LR	5613351	SLIDE ROTARY SWITCH (FUNCTION)
S402LR	5613351	SLIDE ROTARY SWITCH (FUNCTION)
S403LR	5613351	SLIDE ROTARY SWITCH (FUNCTION)
S404LR	5632911	LEVER SWITCH (LOUDNESS)
S701LR	5620592	SLIDE SWITCH (PLAY, REC.)
S702LR	5620592	SLIDE SWITCH (PLAY, REC.)
S703LR	5620592	SLIDE SWITCH (PLAY, REC.)
S704	5620592	SLIDE SWITCH (PLAY, REC.)
TUNEM	5554394	TUNING METER (SDT-9320H)

BLOCK DIAGRAM

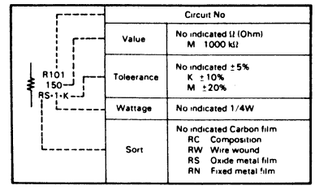


SCHEMATIC DIAGRAM (TAPE RECORDER SECTION)

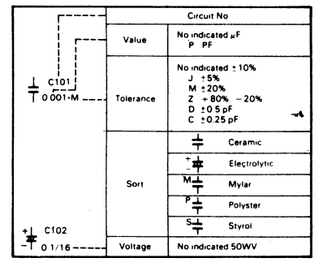


Note:

1. Voltage measured at base of chassis with minimum volume control and no signal.
2. Nomenclature of Resistors and Capacitors.



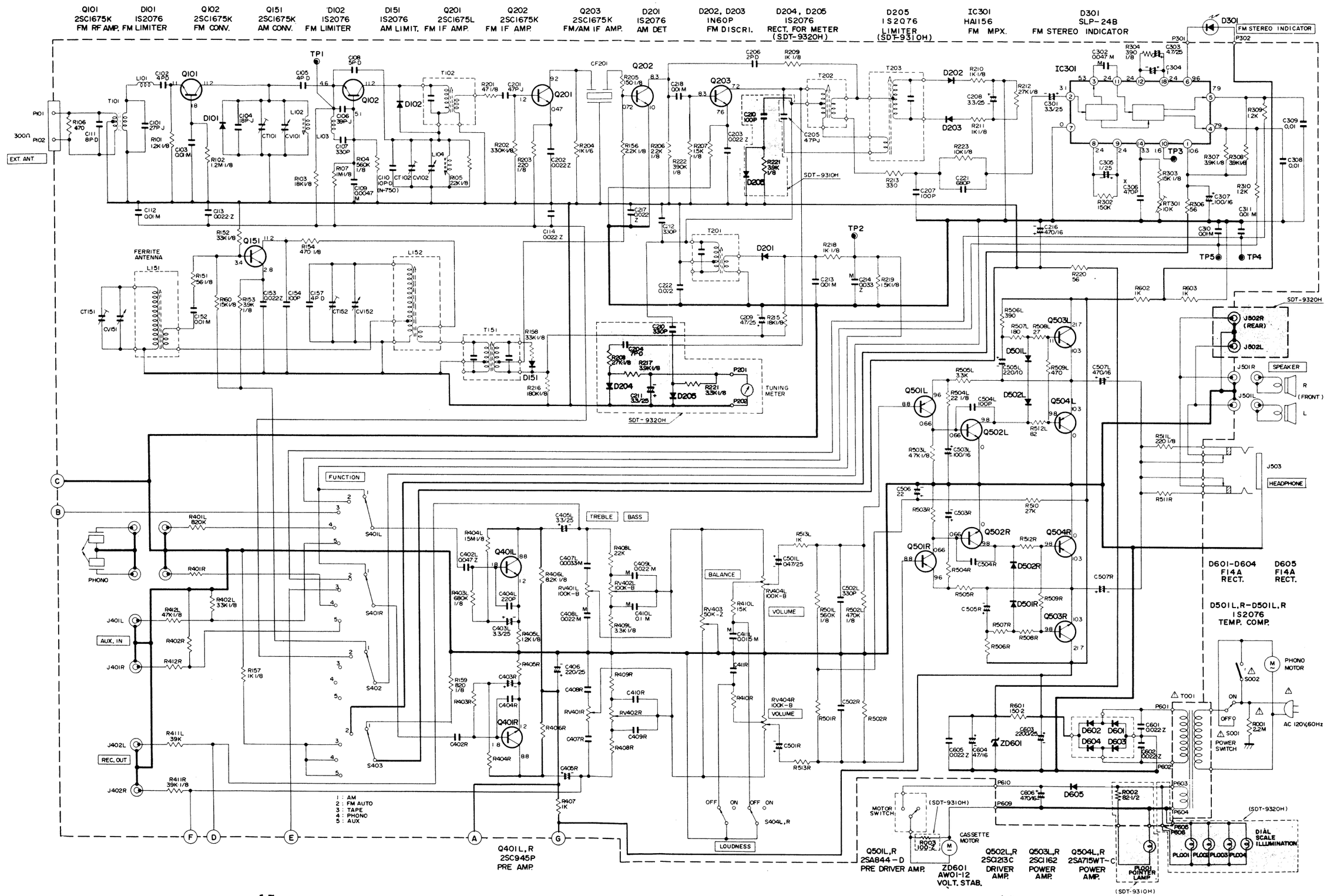
Circut No	
Value	No indicated Ω (Ohm) M 1000 kΩ
Tolerance	No indicated ±5% K ±10% M ±20%
Wattage	No indicated 1/4W
Sort	No indicated Carbon film RC Composition RW Wire wound RS Oxide metal film RN Fixed metal film



Circut No	
Value	No indicated μF P PF
Tolerance	No indicated ±10% J ±5% M ±20% Z +80% −20% D ±0.5 pF C ±0.25 pF
Sort	Ceramic Electrolytic M Mylar P Polyster S Styrol
Voltage	No indicated 50WV

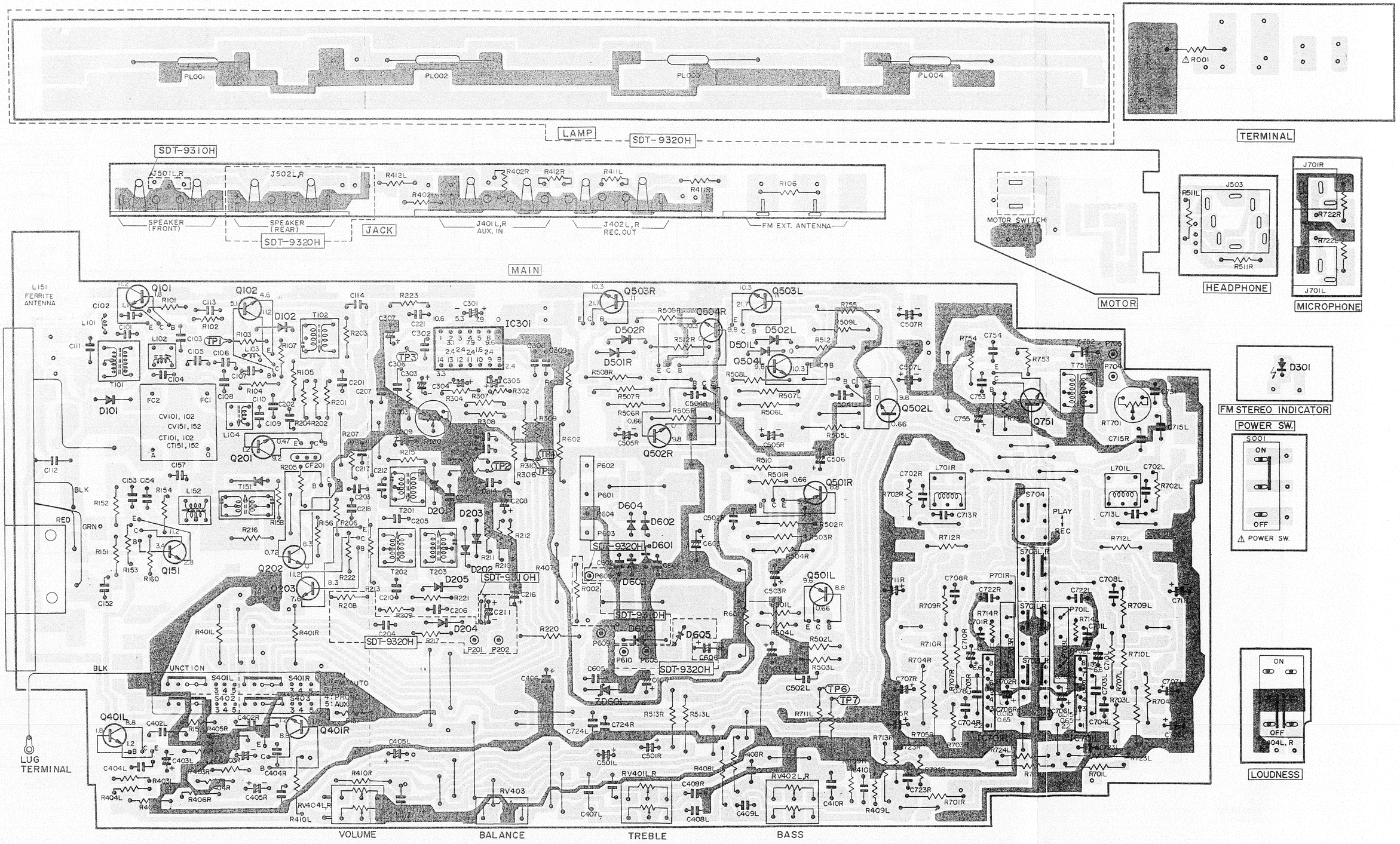
3. Be sure to make your orders of resistors and capacitors with value, voltage, tolerance and sort.
4. When replacing capacitors marked with •, use specified ones stated on parts list since required temperature characteristics.

SCHEMATIC DIAGRAM (TUNER/AF/POWER SECTION)

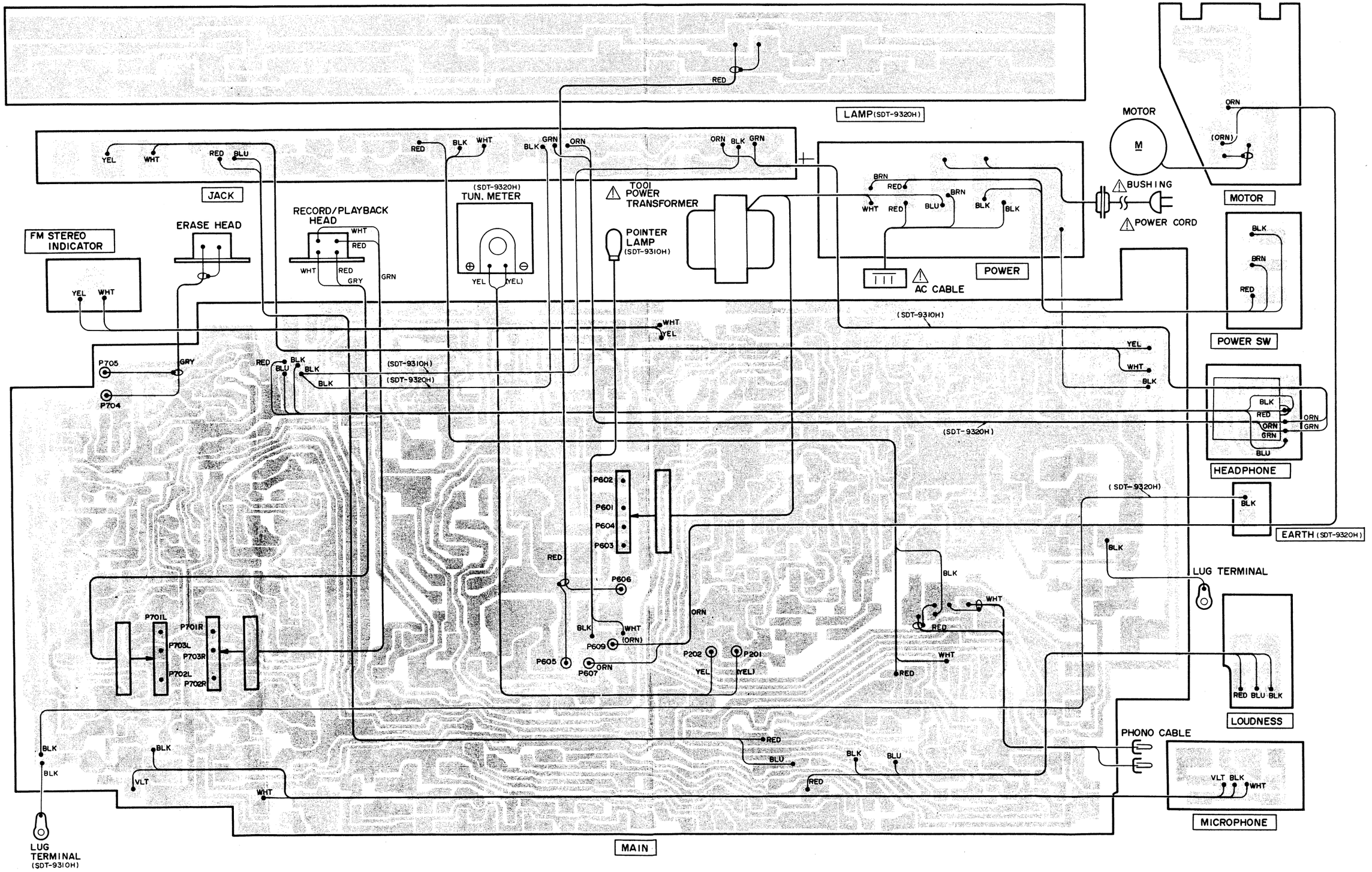


CIRCUIT BOARD DIAGRAM

: Ground : Signal, +B



WIRING DIAGRAM



REPLACEMENT PARTS LIST

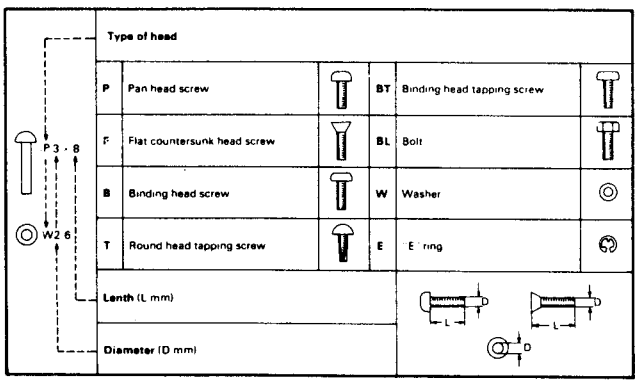
SYMBOL-NO	P-NO	DESCRIPTION
		FOR CASSETTE CHASSIS ASSEMBLY (A)
1	7291733	SWITCH SLIDER
2	7291664	LOCK SLIDER
3	7291694	STOP SLIDER
4	7291683	FAST FORWARD SLIDER
5	7291713	PLAY SLIDER
6	7291624	REWIND SLIDER
7	7291704	RECORD SLIDER
8	7291674	EJECT SLIDER
9	6744585	SLIDER HOLDER ASSEMBLY
10	6744421	REWIND ARM ASSEMBLY
11	7296911	RECORD STOPPER
12	6300981	SPRING
13	7781133	BT SCREW-3MMD
14	6744432	FAST FORWARD ARM ASSEMBLY
15	6308431	SPRING
16	6307996	SPRING
17	6323713	SPRING
18	7781133	BT SCREW-3MMD
19	6744441	TAKE UP ARM ASSEMBLY
20	6307974	SPRING
21	0645587	SPECIAL WASHER
22	7771381	WASHER-MYLAR
23	6744324	AUTO STOP LEVER
24	7781133	BT SCREW-3MMD
25	6308023	SPRING
26	6325261	SPRING
27	6354161	BELT
28	6372433	FLYWHEEL ASSEMBLY
29	7778856	POLYESTER WASHER
30	6357143	FLYWHEEL BELT
31	7771912	NYLON WASHER
32	6530922	FLYWHEEL SUPPORT SPRING
33	6576083	RUBBER PLATE
34	5681371	COLLAR
35	0948275	BALL
36	6744343	HEAD PLATE
37	5445131	ERASE HEAD
38	7768182	SPACER
39	7781005	SCREW FOR HEAD MOUNTING
40	6321733	HEAD SPRING C
41	5444581	RECORD PLAYBACK HEAD
42	6304386	SPRING
43	6308421	SPRING (SDT-9320H)
	6302421	SPRING (SDT-9310H)
44	7299572	BRAKE FUNCTION ARM ASSEMBLY
45	5572686	MOTOR ASSEMBLY
46	6320576	SPRING

SYMBOL-NO	P-NO	DESCRIPTION	
47	7286241	PAUSE LOCK PIECE	
48	6307713	SPRING	
49	7575062	COLLAR	
50	7293145	STOP SLIDER	
51	7781591	BT SCREW-2.6MMD	
52	7291744	PRESSURE ROLLER ARM ASSEMBLY	
53	6308065	SPRING	
54	7778856	POLYESTER WASHER	
55	7291759	PAUSE SLIDER ASSEMBLY	
56	6586001	BRAKE RUBBER	
57	7291634	BRAKE PLATE	
58	6308045	SPRING	
59	6412502	TURNTABLE ASSEMBLY	
60	6320731	BACK TENSION SPRING (LEFT)	
61	0948881	POLYESTER WASHER	
62	6412833	TURNTABLE ASSEMBLY	
63	7786115	POLYESTER WASHER	
64	6744393	RECORD PREVENTION LEVER	
65	6530345	CASSETTE HOLDER	
66	6744302	EJECT ARM	
67	6746761	LOCK ARM	
68	7668061	COUNTER BELT	
69	6354109	BELT (SDT-9310H)	
	7668061	BELT (SDT-9320H)	
70	5559232	COUNTER	
71	7781591	BT SCREW-2.6MMD	
72	6530377	BUTTON SPRING	
73	6421321	RELAY PULLEY	
74	7786115	POLYESTER WASHER	
75	6744466	CASSETTE PANEL ASSEMBLY	
76	6744414	CASSETTE HOLDER ASSEMBLY	
77	6308031	SPRING	
78	6746163	DAMPER LEVER HOLDER	(SDT-9320H)
79	6746151	DAMPER LEVER	
80	6560238	RUBBER	
81	7781134	BINDING SCREW	
82	6324583	SPRING	
83	7290501	GOVERNOR	
84	7781133	BT SCREW-3MMD	
85	6749523	FUNCTION BUTTON ASSEMBLY	
86	5603091	LEAF SWITCH (MOTOR)	

REPLACEMENT PARTS LIST

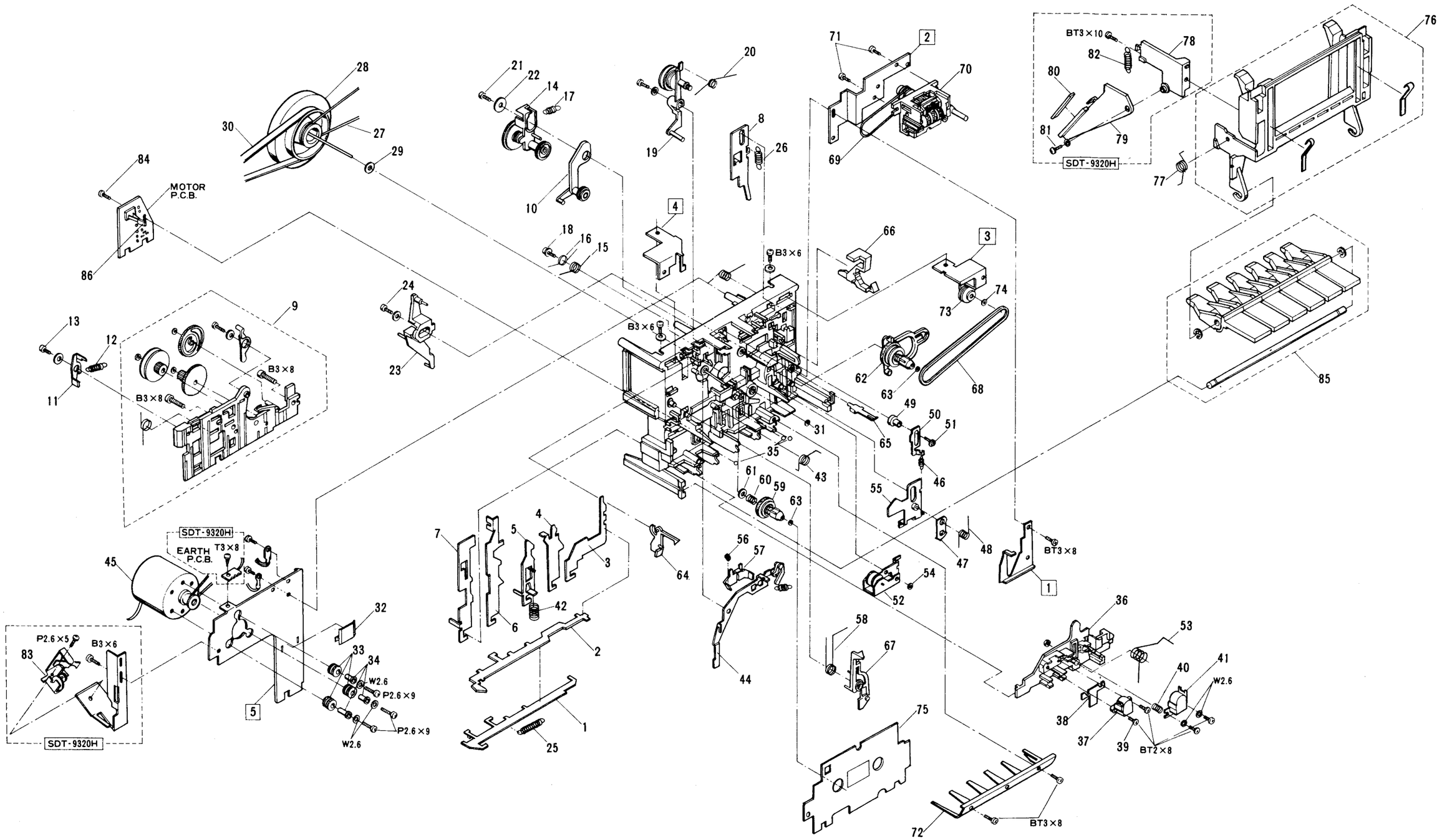
SYMBOL-NO	P-NO	DESCRIPTION
		FOR CASSETTE CHASSIS ASSEMBLY (B)
87	6032401	BOTTOM CASE
88	6573251	RUBBER LEG
89	0661058	8D ROLLER P
90	6344111	ROLLER-13MMD
91	7564281	ROLLER PIN
92	6222623	FRONT PANEL (SDT-9320H)
	6222621	FRONT PANEL (SDT-9310H)
93	6202281	CLEAR PANEL
94	7581502	TUNING SHAFT
95	6398294	POINTER ASSEMBLY (SDT-9320H)
	6398291	POINTER ASSEMBLY (SDT-9310H)
96	6345682	PULLEY
97	6316232	SPRING M
98	7444091	CLIP ANTENNA
⚠ 99	0043793	BUSHING
100	7302571	RECROD LEVER ASSEMBLY
101	7302614	RECORD ARM ASSEMBLY
102	7302601	RECORD ARM
103	6531472	RECORD SPRING
104	0645587	SPECIAL WASHER
105	6470712	SCALE PLATE (SDT-9320H)
	6470711	SCALE PLATE (SDT-9310H)
		MISCELLANEOUS
106	6156682	CABINET
107	6282821	KNOB (TUNING)

SYMBOL-NO	P-NO	DESCRIPTION
		MISCELLANEOUS
108	6262831	KNOB (FUNCTION, VOLUME, BALANCE, TREBLE, BASS)
109	6310162	SPRING WASHER
110	6193332	BACK COVER (SDT-9320H)
	6193331	BACK COVER (SDT-9310H)
111	6743342	CASSETTE TRAY
112	6091588	CASSETTE DOOR ASSEMBLY
113	A106089	SPRING CAP
		FOR CHANGER AND SPEAKER ASSEMBLY
	LA5700063	CHANGER (BSR, C-197B1 WITH CUE)
	5700071	CHANGER ASSEMBLY (SP-915)
	LA6503031	DUST COVER (WITHOUT HINGE)
	LA5704082	STYLUS (BSR, T-3MD)
	LA5704011	CARTRIDGE (BSR, TC-11M)
	LA7703012	45RPM ADAPTOR (BSR, PS-899-2)
	LA6500151	SPEAKER ASSEMBLY (SS-81B) (SDT-9310H)
	LA6500122	SPEAKER ASSEMBLY (SS-82A) (SDT-9320H)
	LA5702002	SPEAKER CORD (SDT-9320H)



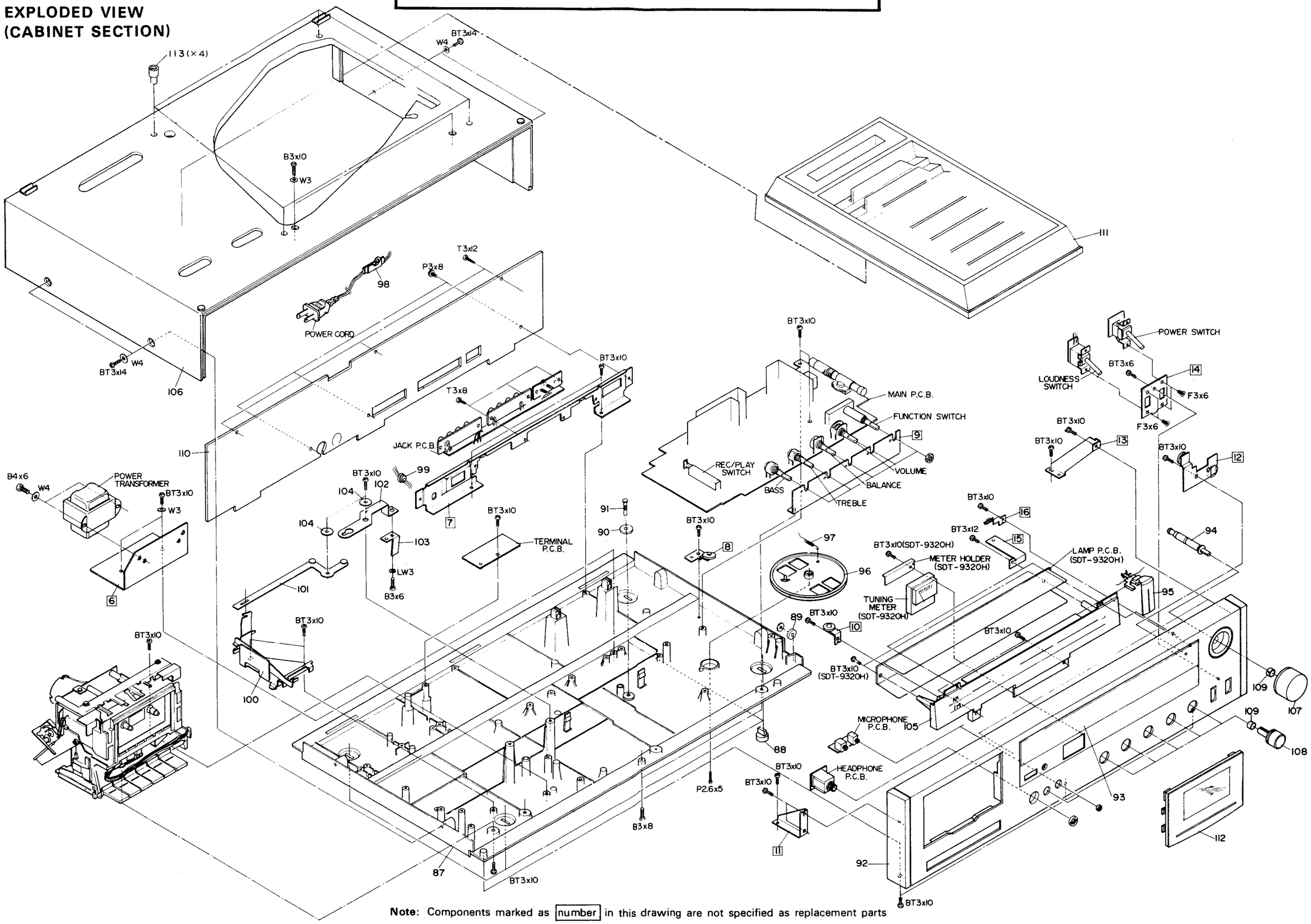
When ordering hardware excluding stated on these lists, be sure to make your orders with type and size.

EXPLODED VIEW (CASSETTE CHASSIS SECTION)



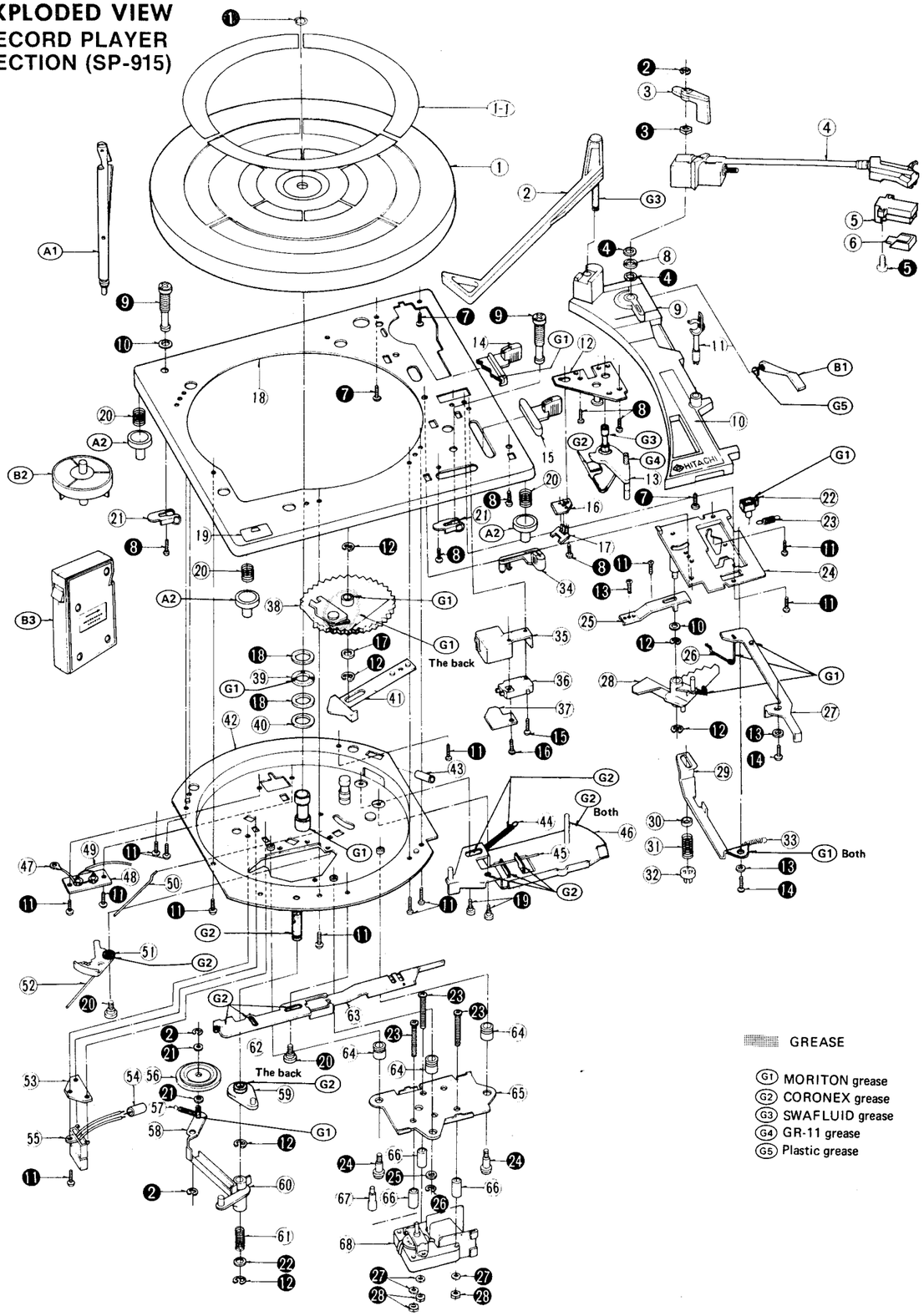
Note: Components marked as [number] in this drawing are not specified as replacement parts.

EXPLODED VIEW (CABINET SECTION)



Note: Components marked as [number] in this drawing are not specified as replacement parts

EXPLODED VIEW
RECORD PLAYER SECTION (SP-915)

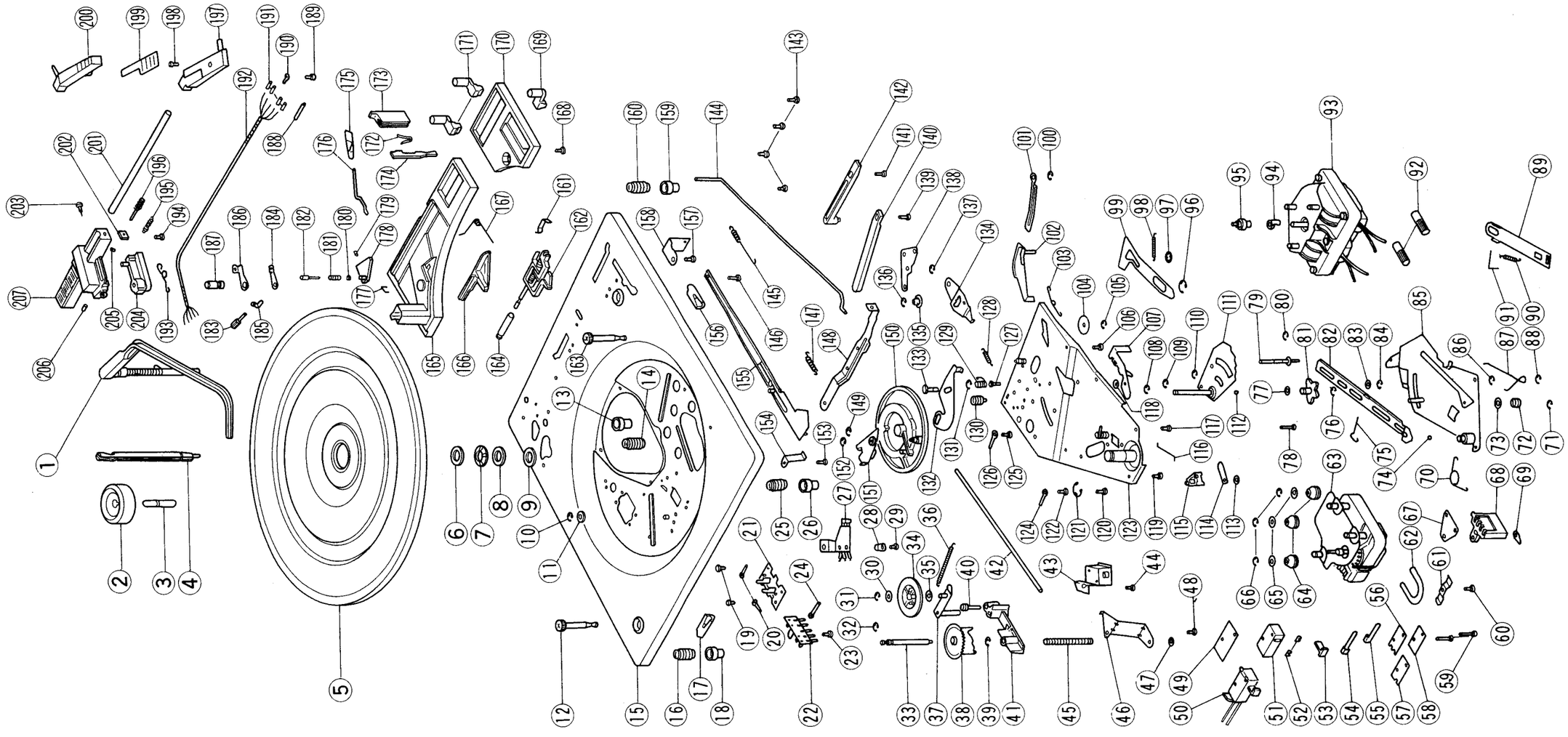


REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Description	Per Set (Pcs.)	Remarks
1	SFTE915A04E	Turntable ass'y	1	
1-1	SFTK915A02	Ornament,turntable	3	
2	SFUM915A05A	Record support arm	1	
3	SFUM915A03	Lift guide	1	
4	EPUK60SMAD	Pickup arm ass'y	1	
5	EPC135THD	Cartridge	(1)	
6	EPS415TSD	Stylus	(1)	
7	SFCNC1301	Stylus cover	1	
8	SFUP890B01	Ball race	1	
9	SFKP915A05	Arm base	1	
10	SFNP915-07	Ornament,arm base	1	
11	SFKU915A05E	Arm rest ass'y	1	
12	SFUK915A04E	Pickup plate	1	
13	SFUM915A22A	Locating plate ass'y	1	
14	SFKT915A02	Size select knob	1	
15	SFKT915A03	Speed select knob	1	
16	SFDP915A02	P.W.B.	1	
17	SFDKCMSP5003	Connector	1	
18	SFBP915A03E	Main plate ass'y	1	
19	SFNP915-11	Diamond sticker	1	
20	SFQC915A02	Spring	4	
21	SFUP411-6	Retaining clip	2	
22	SFUM915A09	Select guide	1	
23	SFQH915A02	Spring	1	
24	SFXJ915A13E	Sub plate ass'y(Cancel lever)	1	
25	SFUC915A02	Actuating slide	1	
26	SFQS915A01	Spring	1	
27	SFUP915A13E	Start rod ass'y	1	
28	SFUM915A08	Index lever	1	
29	SFUP915A03	Select rod	1	
30	SFUM915A10	Collar	1	
31	SFQA915A05	Spring	1	
32	SFUM915A11	Lock collar	1	
33	SFQH915A01	Spring	1	
34	SFKT915A04	Speed select knob	1	
35	SFUM915A15	Switch cover	1	
36	SFDSK2TV-2	Micro switch(TV-2)	1	
37	SFUP915-14	Barrier	1	
38	SFXJ915A17E	Main gear ass'y	1	
39	SFUP920A09E	Ball race	1	
40	SFGC915A03	Rubber,turntable support	1	
41	SFUC915A01	Actuating slide	1	
42	SFUK915A03E	Base plate ass'y	1	
43	SFEB3BT17	Tubing	1	
44	SFQH915A04	Spring	1	
45	SFQS915A04	Spring	1	
46	SFUP915A10E	Operating plate ass'y	1	
47	SFEL11U55KAE	Ground lead	1	
48	SFDJ920A01	Phono socket	1	
49	SFDK915-01E	Pickup lead ass'y	1	
50	SFQS915A02	Spring	1	
51	SFUM915A12	Spindle lever	1	
52	SFQS915A03	Spring	1	
53	SFUP915A08	Barrier	1	
54	SFEB6BT20	Tubing	1	
55	SFDK1554P3A	AC 4 pin connector ass'y	1	
56	SFM1915A04E	Idler ass'y	1	
57	SFQH915A03-1	Spring	1	
58	SFUP915A11E	Idler lever ass'y	1	
59	SFMK915A02	Idler cam	1	
60	SFUM915A14	Speed change lever	1	
61	SFQA915A06	Spring	1	
62	SFUM915A13	Speed select lever	1	
63	SFUP915-15	Speed select lever	1	
64	SFGC915A02	Motor cushion rubber	3	
65	SFMF915A01	Motor plate	1	
66	SFXJ915A10	Spacer	3	
67	SFMC915A01	Capstan(60Hz)	1	
68	2E10C21P	Motor(AC120V,2 Pole)	1	

Ref. No.	Part No.	Part Name & Description	Per Set (Pcs.)	Remarks
SCREWS, WASHERS, NUTS and CIRCLIPS				
❶	SFXT915A01	Ring stopper	1	
❷	XUC3FY	Circlip	3	
❸	SFXN915A0-1	Nut	1	
❹	SFXW890B01	Washer,pickup	2	
❺	XTN26+6G	Screw	2	
❼	XTV3+10G	Screw	3	
❽	XTV3+8G	Screw	5	
❾	SFXG411-1	Screw,Transit	2	
❿	QBJ3309	Washer	2	
⓫	XTV3+8F	Screw	13	
⓬	XUC5FY	Circlip	6	
⓮	XTV3+10QFX	Screw	2	
⓯	XTV3+20GFX	Screw	1	
⓰	XTN3+16GFX	Screw	1	
⓱	SFPEW1100	Washer	1	
⓲	SFXW920A03	Washer,Turntable	2	
⓳	SFXG915-06	Screw	2	
⓴	SFXG910-06	Screw	2	
㉑	QBJ3066	Washer	2	
㉒	XWG6	Washer	1	
㉓	XSN4+30BWS	Screw	3	
㉔	SFXG915A01	Screw	2	
㉕	XWG5BW	Washer	1	
㉖	XUC4FY	Circlip	1	
㉗	XWA4B	Washer	3	
㉘	XNG4	Nut	3	
ACCESSORIES				
A1	SFVS915A01E	Automatic spindle	1	
A2	SFWU920A01	Mounting cup	4	
A3	SFNU915-04	Operating instruction	1	
OTHER OPTIONS				
B1	SFKT915A01	Cueing lever	1	
B2	SFVA920A01	Single-play adaptor	1	
B3	SFVA701-1E	45-rpm multiple-play adaptor	1	

EXPLODED VIEW
RECORD PLAYER SECTION
(BSR C-197B1)



REPLACEMENT PARTS LIST

Item	BSR Part's No.	Description
1	B114290	Control Arm Assembly
2	A101371	45 r.p.m. Turntable Adaptor
3	A108748	Stub Spindle
4	A107043	Centre Spindle Assembly
5	D114211	Turntable Moulding
6	A101506	Thrust Washer
7	A101649	Ballrace
8	A101506	Thrust Washer
9	A102058	Damping Rubber
10	A102109	Circlip
11	A102595	Washer
12	A104189	Transit Screw
13	A106089	Spring Cup
14	A106090	Spring(Unit Mounting)
15	B114527	Mainplate Sub Assembly
16	A106090	Spring(Unit Mounting)
17	A102166	Retaining Clip
18	A106089	Spring Cup
19	A106510	Screw type B No.6 x.6.5 Rec. Hd.(2 off)
20	A102126	Solder Tag(2 off)
21	A102616	Phono Socket
22	A103536	Tag Mounting Strip
23	A106510	Screw type B No.6 x 6.5 Rec. Pan Hd.
24	A102126	Solder Tag
25	A106090	Spring(Unit Mounting)
26	A106089	Spring Cup
27	A112253	Muting Switch Assembly
28	A106749	4B.A. Tag Lockwasher
29	A106510	Screw type B No.6 x 6.5 Rec. Pan Hd.
30	A101620	Washer
31	A100762	Circlip
32	A102128	Circlip
33	A108589	Raising Spindle
34	A101623	Jockey Pulley Assembly
35	A101620	Washer
36	A105824	Spring(Jockey Pulley)
37	A105965	Jockey Arm Riveting Assembly
38	B110364	Raising Cam
39	A102109	Circlip
40	A105619	Adjusting Screw
41	B106021	Speed Change Arm
42	A108401	178mm of ø3 P.V.C.Sleeving
43	A113701	Muting Switch Riveting Assembly
44	A106510	Screw type B No.6 x 6.5 Rec. Pan Hd.
45	A105831	Spring(Raising Spindle)
46	A106034	Speed Change Bracket
47	A102128	Circlip
48	A106510	Screw type B No.6 x 6.5 Rec. Pan Hd.
49	A106015	Retaining Strip
50	B114542	120V Miniature Switch Assembly
	B114544	240V Miniature Switch Assembly
51	B108181	Switch Body
52	A200446	Solder Tag(2 off)
53	A200450	Switch Dolly
54	A200445	Contact(Flat).
55	A200444	Contact(Domed)
56	A108184	Switch Cover
57	A108183	Switch Cover
58	A108182	Switch Cover
59	A106512	Screw type B.T. 4-24 x 16 Rec. Pan Hd.(2 off)
60	A105263	Screw type B No.6 x 9.5 Rec. Pan Hd.
61	A102718	Cable Clamp
62	A106513	75mm of ø5 P.V.C.Sleeving
63		T.P.8. Two Pole Motor Assembly
64	A102181	Rubber Mounting(3 off)
65	A101646	Motor Mounting Washer(3 off)
66	A100762	Circlip(3 off)
67	A104865	Insulating Strip
68	A111516	Molex Plug
69	A106749	4B.A. Tag Lockwasher
70	A106980	Operating Plate Spring
71	A100785	Circlip
72	A108077	Spring
73	A103290	Washer
74	A107419	9/64" Dia. Ball Bearing
75	A105901	Actuating Slide Spring
76	A100762	Circlip
77	A108654	Spring Clip
78	A106511	Screw type-B.T.4-24 x 13 Rec. Pan Hd.
79	A109690	P.U. Raising Spindle Assembly
80	A108334	Circlip
81	B108073	Toggle Wheel
82	B106962	Actuating Slide
83	A106966	Washer
84	A104077	Circlip
85	B109689	Operating Plate Assembly
86	A102109	Circlip
87	A108078	Selector Drive Spring
88	A102109	Circlip
89	B105597	Feed Lever Link
90	A105827	Link Return Spring
91	A106968	Feed Lever Link Spring
92	A105472	Screw-on Connector(2 off)
93		Four Pole Motor Assembly(F.P.20)
94	A104765	Drive Spring
95	B110487	50Hz Motor Pulley
	B110488	60Hz Motor Pulley
96	A101526	Circlip
97	A102251	Retainer
98	A102623	Cut-off Lever Spring
99	B105592	Cut-off Lever
100	A102109	Circlip
101	A106134	Reject Link
102	A108283	Reject Lever Assembly
103	A106627	Detent Spring

Item	BSR Part's No.	Description
104	A105660	Control Washer
105	A100762	Circlip
106	A106510	Screw type B No.6 x 6.5 Rec. Pan Hd.
107	B108036	Selector Lever
108	A102128	Circlip
109	A100785	Circlip
110	A102109	Circlip
111	B114316	Quadrant Assembly
112	A107154	3/32" Dia, Ball Bearing
113	A102237	Washer
114	A104384	Leaf Spring
115	A105609	Spring Support
116	A104882	Retaining Clip
117	A106510	Screw type B No.6 x 6.5 Rec. Pan Hd.
118	A108893	Washer
119	A106510	Screw type B No.6 x 6.5 Rec. Pan Hd.
120	A106510	Screw type B No.6 x 6.5 Rec. Pan Hd.
121	A105678	Circlip
122	A106510	Screw type B No.6 x 6.5 Rec. Pan Hd.
123	C108483	Main Sub Plate Riveting Assembly
124	A102126	Solder Tag
125	A110609	Screw type No.8 x 13 Hi-Lo Rec. Pan Hd.
126	A102126	Solder Tag
127	A108894	Selector Pivot
128	A108075	Detent Plate Spring
129	A108891	Selector Pivot Spring
130	A108083	Cut-off Slide Spring
131	A102109	Circlip
132	A112167	Cut-off Slide
133	A108064	Slide Pin
134	A108033	Detent Plate
135	A108461	Roller
136	A100785	Circlip
137	A102109	Circlip
138	A106193	Reject Plate Assembly
139	A105267	Screw type B.T. 4-24 x 8 Rec. Pan Hd.
140	B106119	Reject Slide
141	A105267	Screw type B.T. 4-24 x 8 Rec. Pan Hd.
142	B106143	Selector Slide
143	A106510	Screw type B No.6 x 6.5 Rec. Pan Hd.(4 off)
144	B106405	Switch Link
145	A112783	Spring(Anti-Skate)
146	A105267	Screw type B.T. 4-24 x 8 Rec. Pan Hd.
147	A105826	Spring(Switch Lever)
148	A106129	Switch Lever
149	A102110	Circlip
150	A102133	Cam Gear Riveting Assembly
151	A114525	Actuating Pawl Assembly
152	A100762	Circlip
153	A114784	Screw Type B.T.No.6 x 6 Rec. Pan Hd.
154	A109309	Strap
155	B111836	Speed Change Slide Assembly
156	A102166	Retaining Clip
157	A106510	Screw type B No.6 x 6.5 Rec. Pan Hd.
158	A112757	Spring Anchor
159	A106089	Spring Cup
160	A106090	Spring(Unit Mounting)
161	A108410	Spring
162	A113463	Raising Slide Assembly
163	A104189	Transit Screw
164	A108408	Cylinder
165	D114292	Control Housing
166	A114555	Raising Slide Assembly
167	A114405	Spring
168	A106510	Screw type B No.6 x 6.5 Rec. Pan Hd.
169	B114274	Knob
170	C114277	Control Cover
171	B114274	Knob(2 off)
172	A106173	Pick-up Rest Spring
173	B114279	Pick-up Rest
174	A114281	Pick-up Clip
175	A112770	Knob
176	A114284	Raising Arm
177	A110895	Circlip
178	B114288	Raising Pad
179	A106505	Grub Screw 6B.A. x 3.2(Pointed)
180	A106966	Washer
181	A100807	Spring
182	A106156	Position Adjusting Screw
183	A111806	Adjusting Screw
184	A111763	Pick-up Adjuster
185	A106395	Spring
186	A111762	Overload Plate
187	A114280	P.U. Spindle Nut
188	A114785	22mm of ø2 P.V.C.Sleeving
189	A109551	Screw type A No.4 x 6.5 Rec. Pan Hd.
190	A103587	Solder Tag
191	A104306	Sleeve(4 off)
192	A114272	508mm of Quin P.U. Lead
193	A111815	Spring
194	A114786	Screw type A No.4 x 6.5 Rec. c'sunk Hd.
195		P.U. Balance Spring
196	A108344	Balance Adjusting Screw
197	C114275	Pick-Up Head
198	A114787	Screw type Plastite 4-20 x 1/4" Rec. c'sunk Hd.
199	A114278	Pick-Up Head Trim
200	D114482	Pick-Up Head
201	A114286	Pick-Up Tube
202	A114271	Balance Adjuster
203	A09-144	P.U. Pivot Screw
204	A114530	P.U. Hinge Assembly
205	A108348	Circlip
206	A103373	Securing Rubber
207	A114529	Pick-Up Body Assembly

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Phone #213-537-8383

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